

FIG. 2

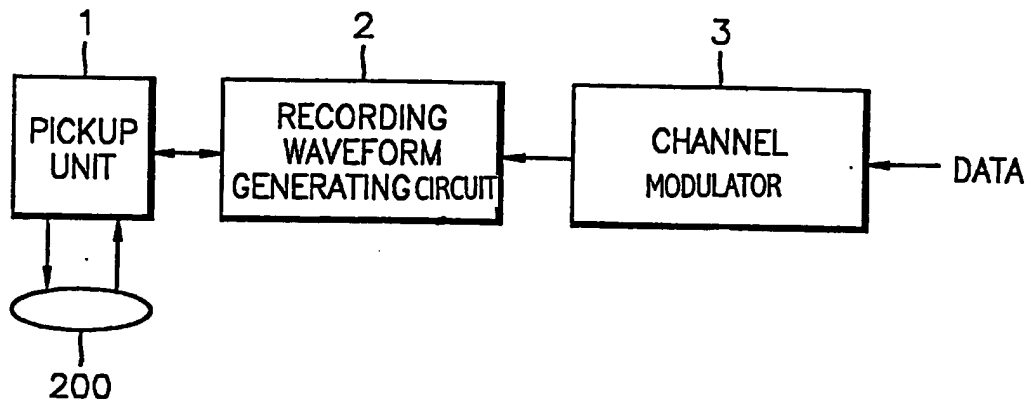
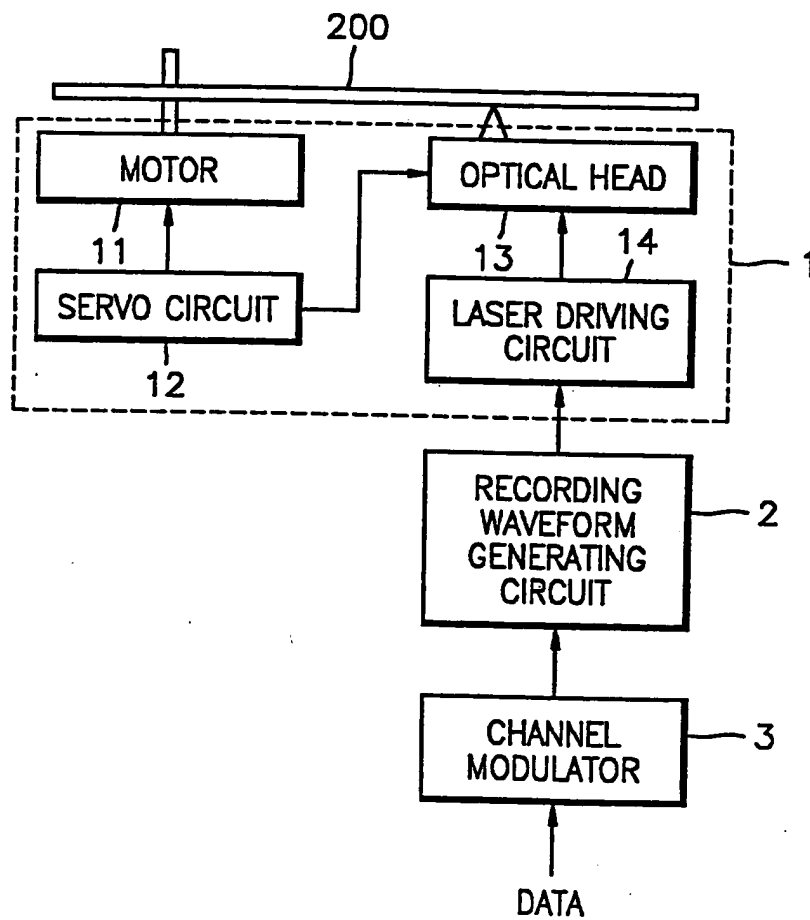


FIG. 3



The diagram illustrates the timing relationship between three signals: Clock, NRZI DATA, and the recording waveform. The Clock signal is a periodic square wave. The NRZI DATA signal is a square wave where the level changes at the midpoint of each clock period. The recording waveform is a complex signal with multiple pulses. Key timing parameters are labeled: T_{sf} (sampling frequency period), T_l (line period), T_{mp} (mark period), and F (frame period). The diagram shows how these signals are synchronized and how the recording waveform is derived from the NRZI DATA signal.

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The diagram illustrates the timing relationships between three signals: Clock, NRZI DATA, and a recording waveform. The Clock signal is a periodic square wave. The NRZI DATA signal is a square wave where the duration of each high or low state is an integer multiple of the clock period T , specifically $3T$, $5T$, and $7T$. The recording waveform is a high-frequency signal with a period $T_{mp} = 0.5T$. It consists of a series of pulses with peak-to-peak amplitude P_{b1} and P_{b2} . The pulse width is T_{sp} and the pulse-to-pulse interval is T_{cl} . The total duration of the recording waveform shown is G . The diagram also shows a transition time T_{TP} for the recording waveform.

The diagram illustrates the timing relationships between three signals: Clock, NRZI DATA, and a recording waveform. The Clock signal is a periodic square wave. The NRZI DATA signal is a square wave where the data rate is related to the clock by factors of 3, 5, and 7. The recording waveform is a complex signal with multiple levels and transitions. Key timing parameters are labeled: $T_{s/p}$ (sampling period), T_{cl} (clock period), $T_{mp} = 0.5T$ (mark period), P_{b1} and P_{b2} (bit periods), and G (guard time).

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FIG. 7A

NRZI DATA

FIG. 7B

(e) LH2

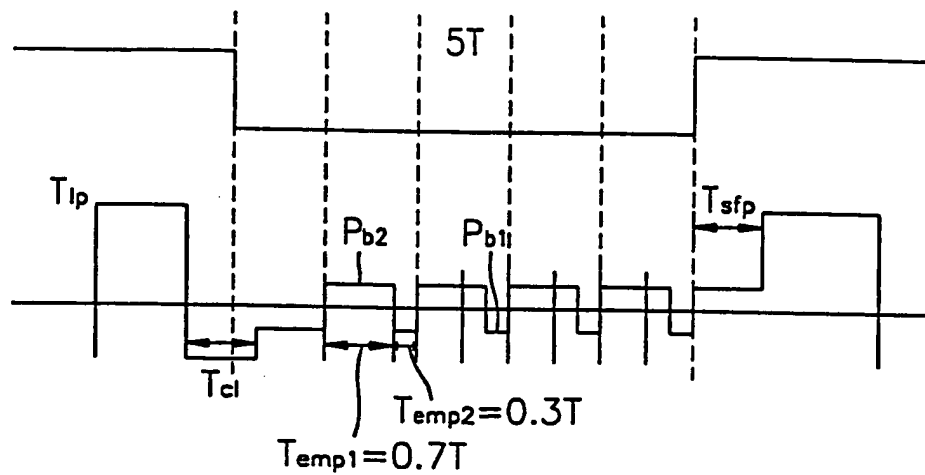


FIG. 7C

NRZI DATA

FIG. 7D

(f) LH3

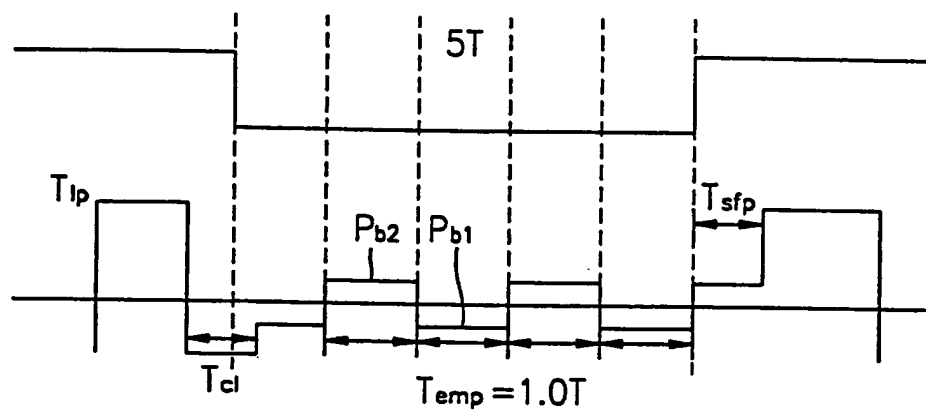
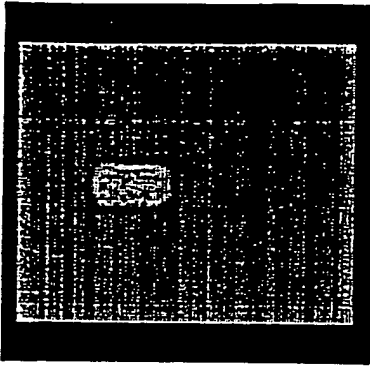
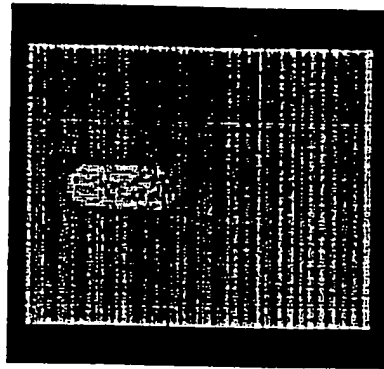


FIG. 8A



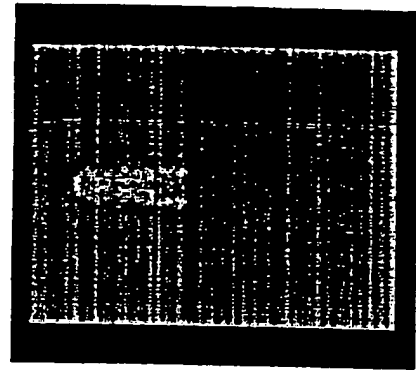
(a)

FIG. 8B



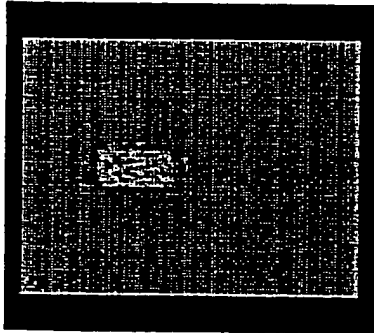
(b)

FIG. 8C



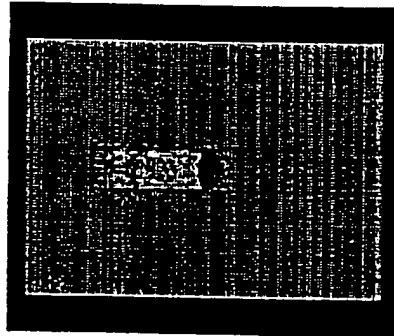
(c)

FIG. 9A



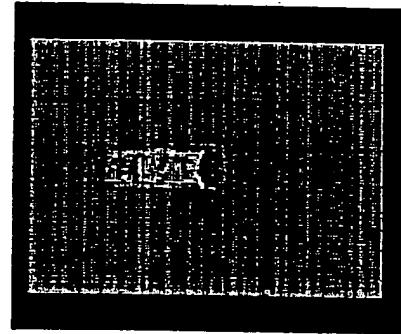
(d)

FIG. 9B



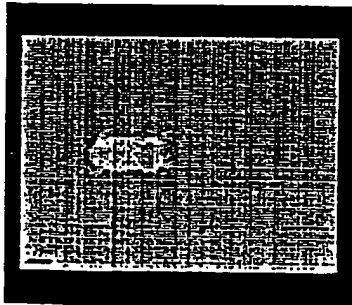
(e)

FIG. 9C



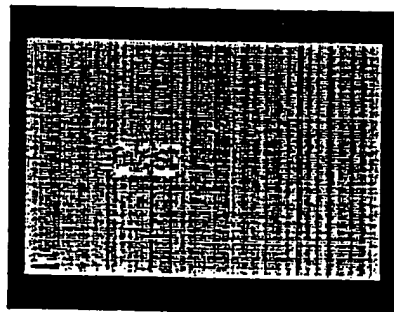
(f)

FIG. 10A



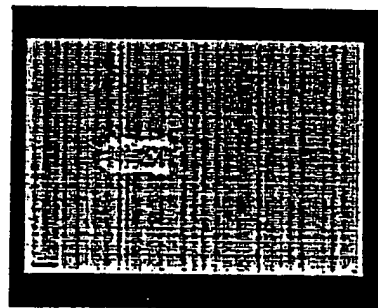
(g)

FIG. 10B



(h)

FIG. 10C



(i)

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FIG. 11A (PRIOR ART)

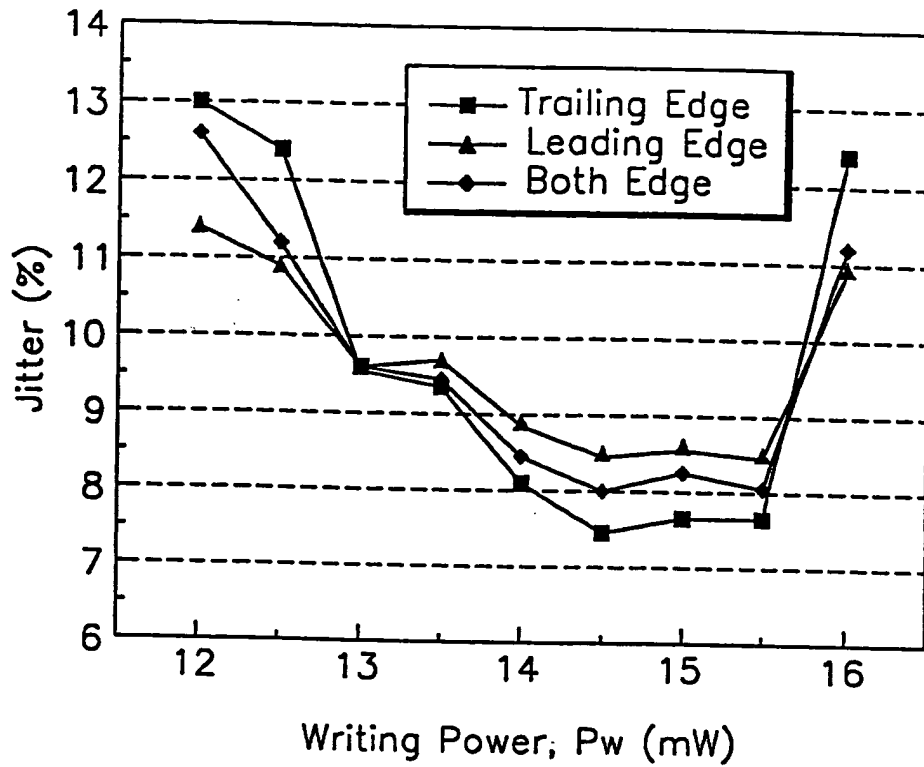
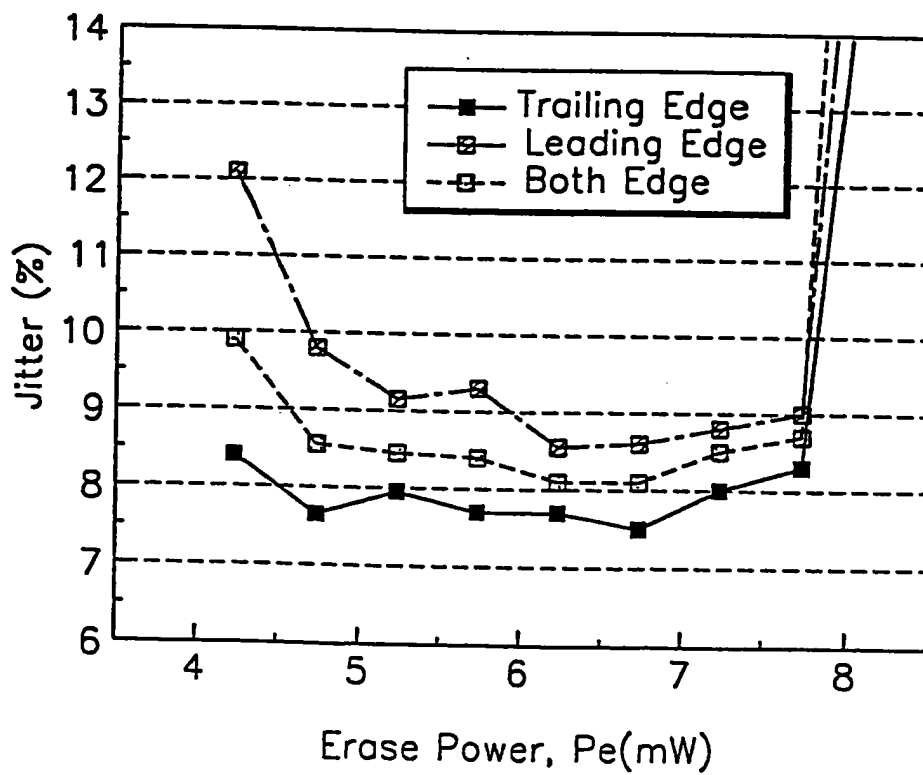
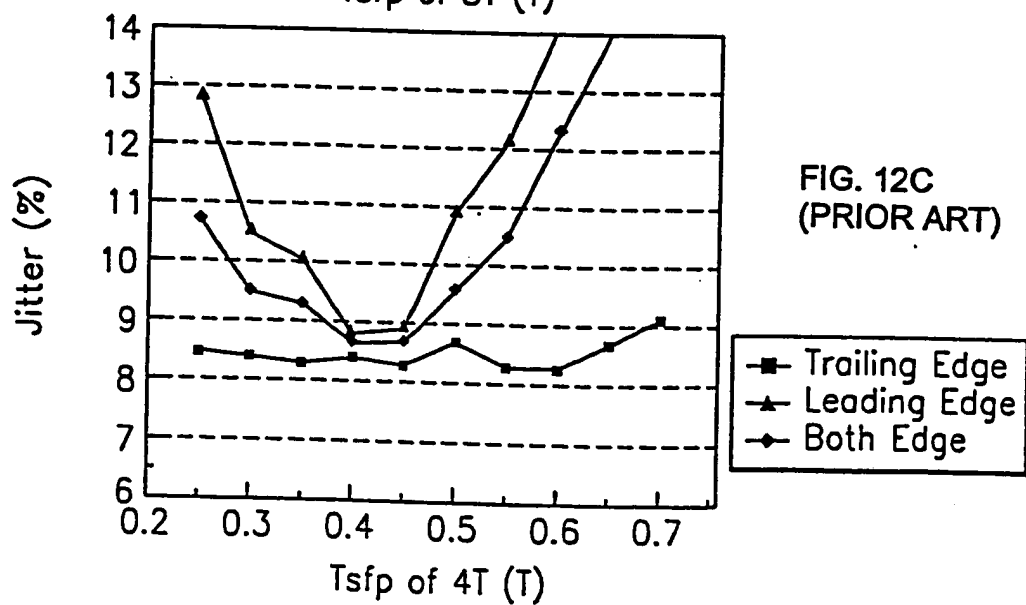
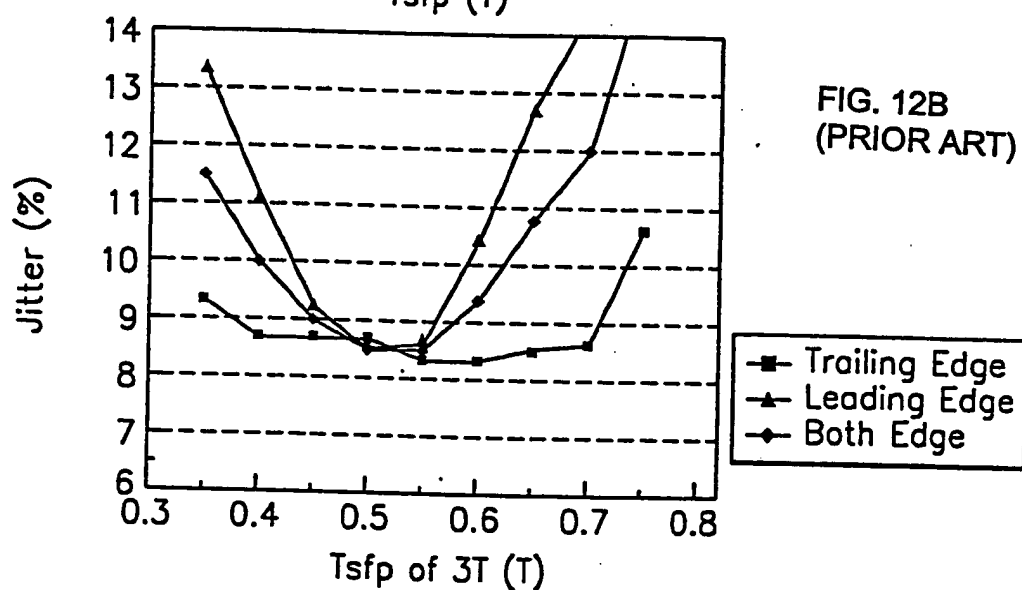
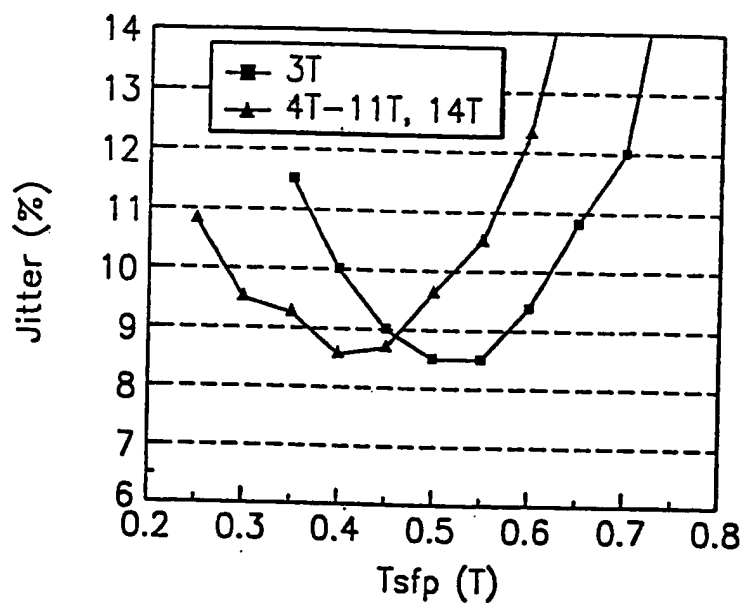


FIG. 11B (PRIOR ART)





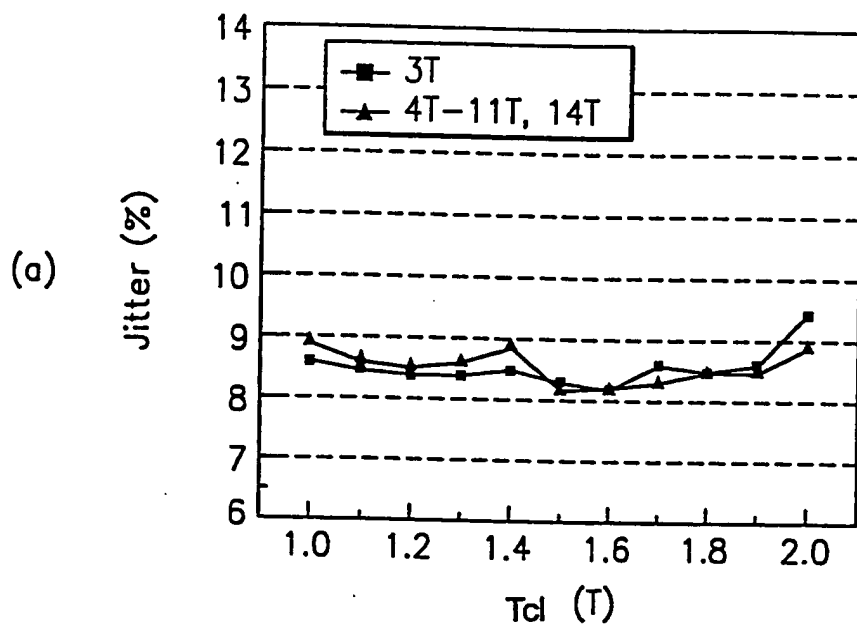


FIG. 13A
(PRIOR ART)

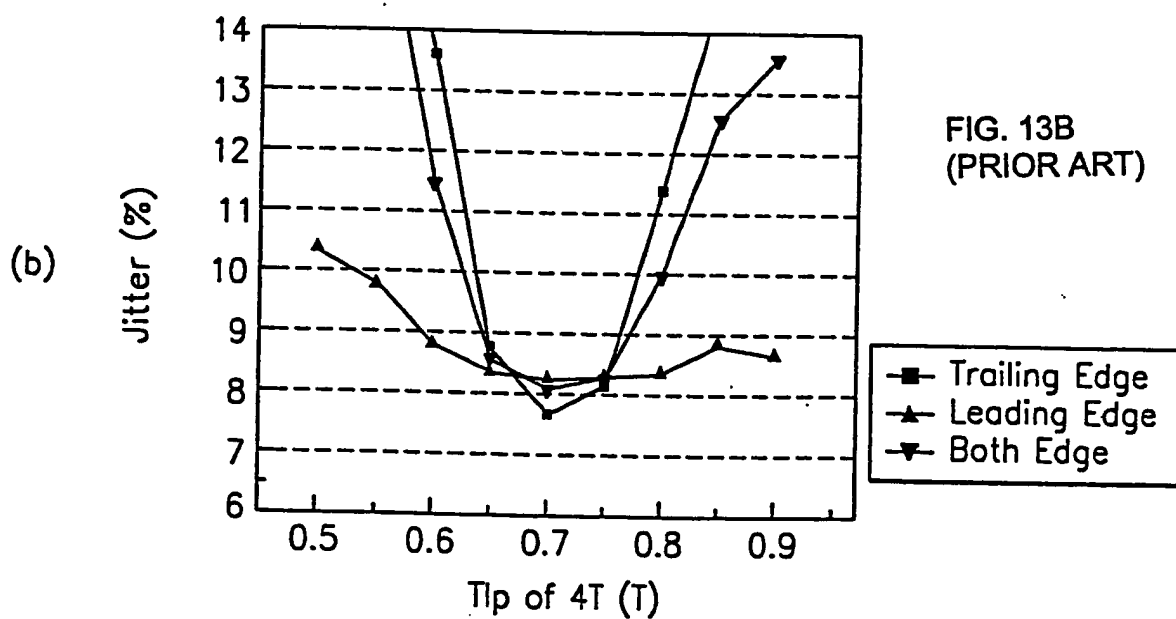


FIG. 13B
(PRIOR ART)

FIG. 14A

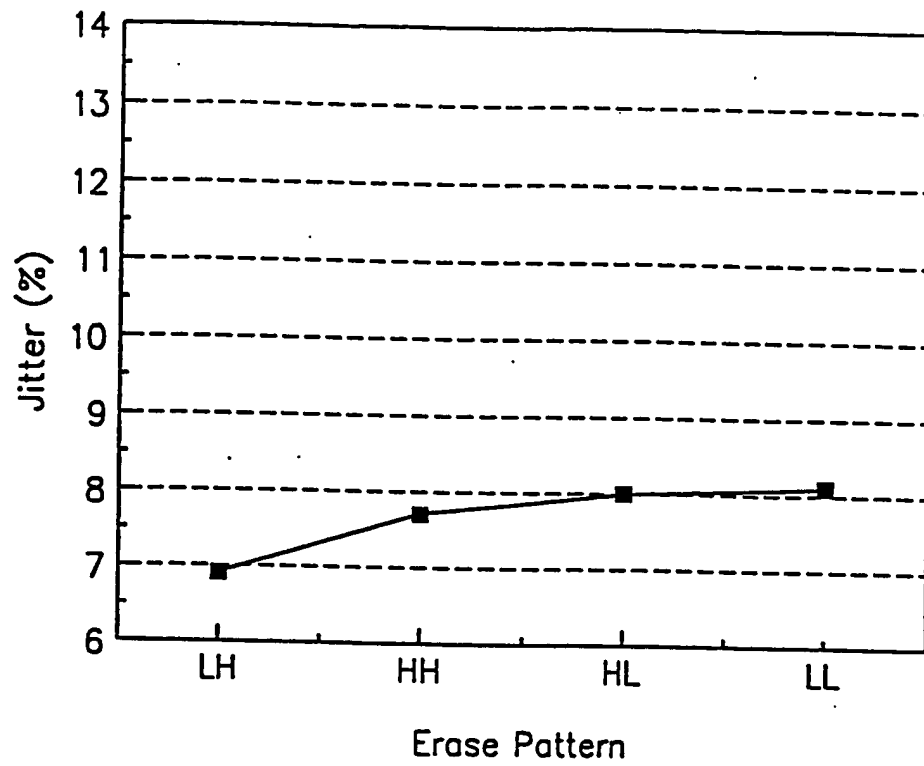


FIG. 14B

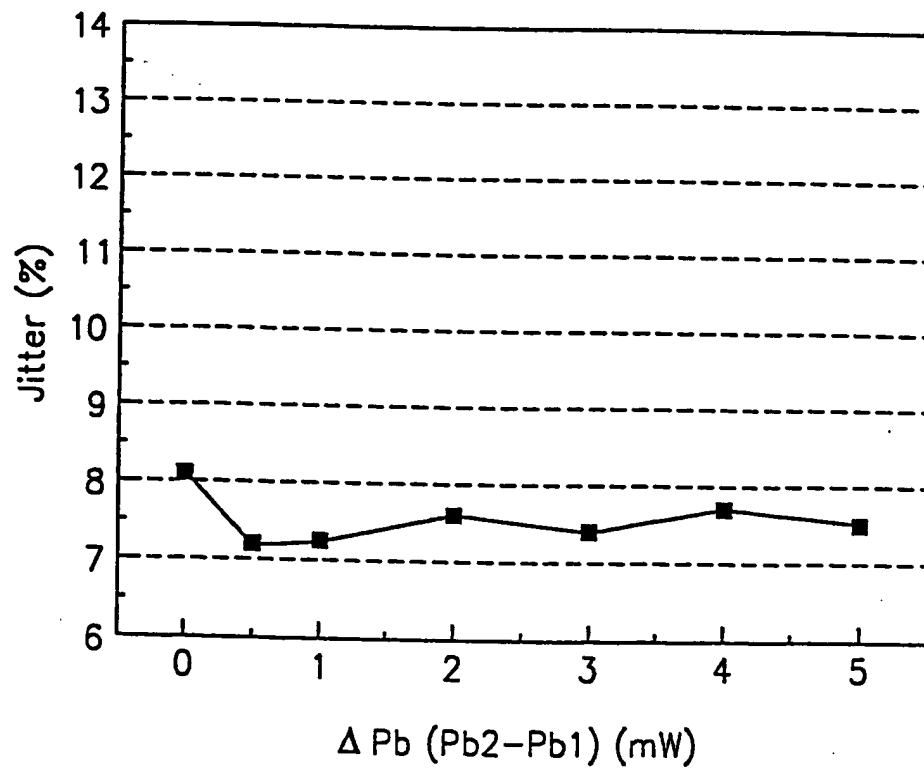


FIG. 15

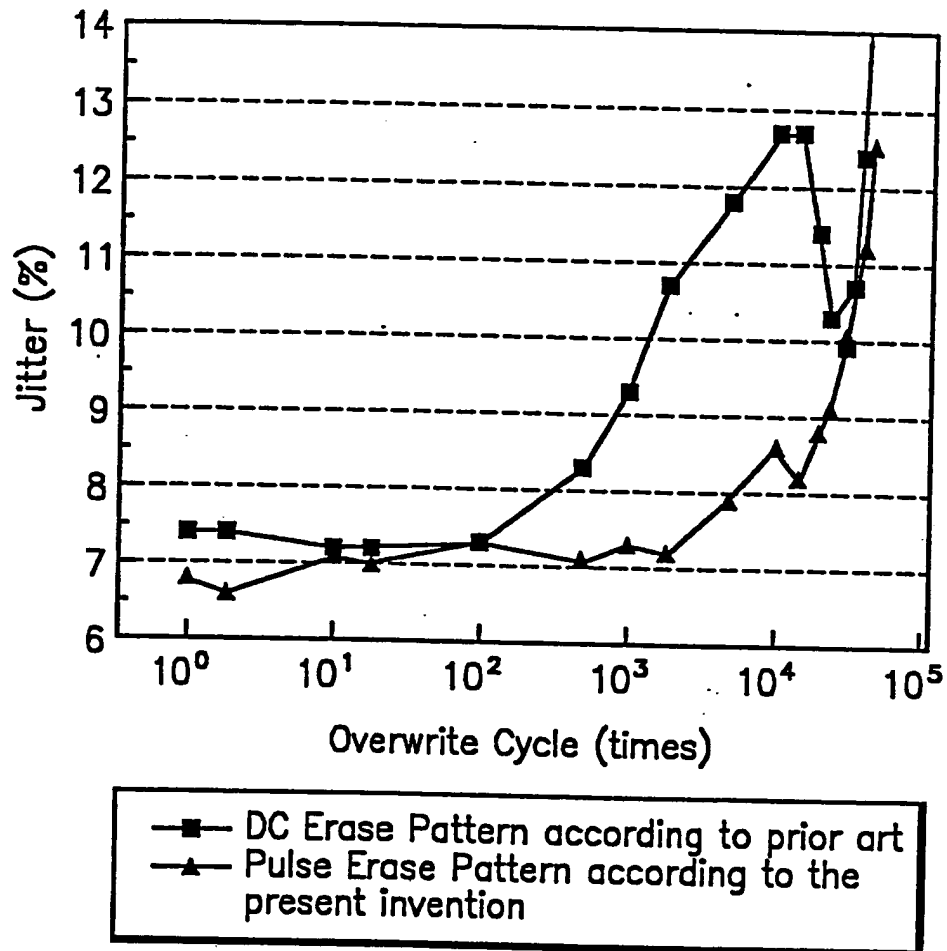


FIG. 16A (PRIOR ART)

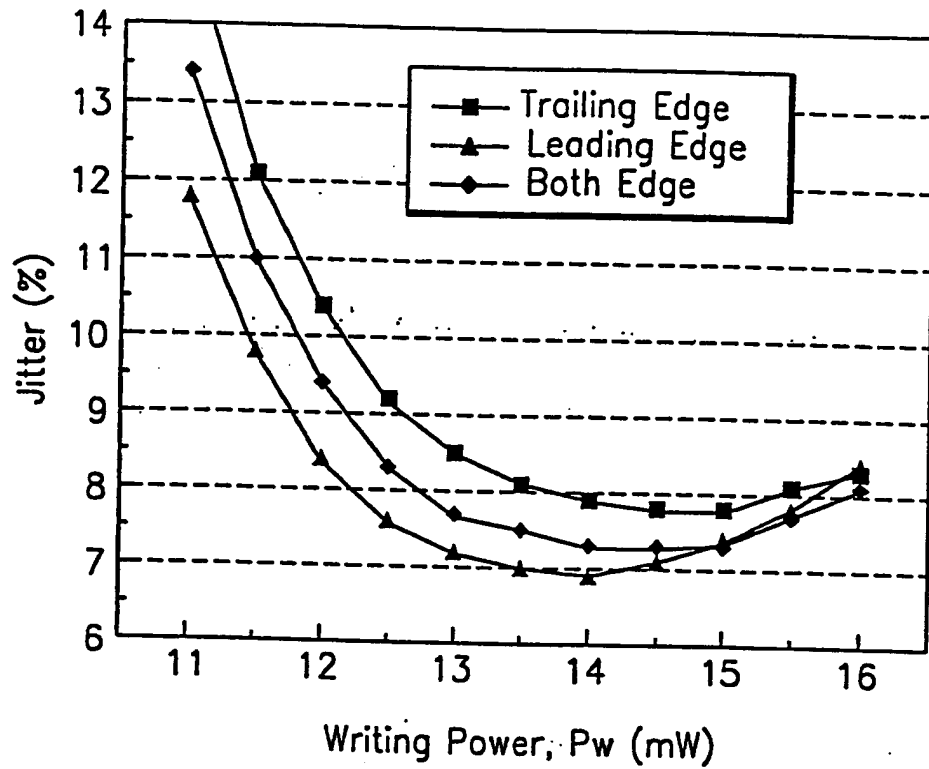
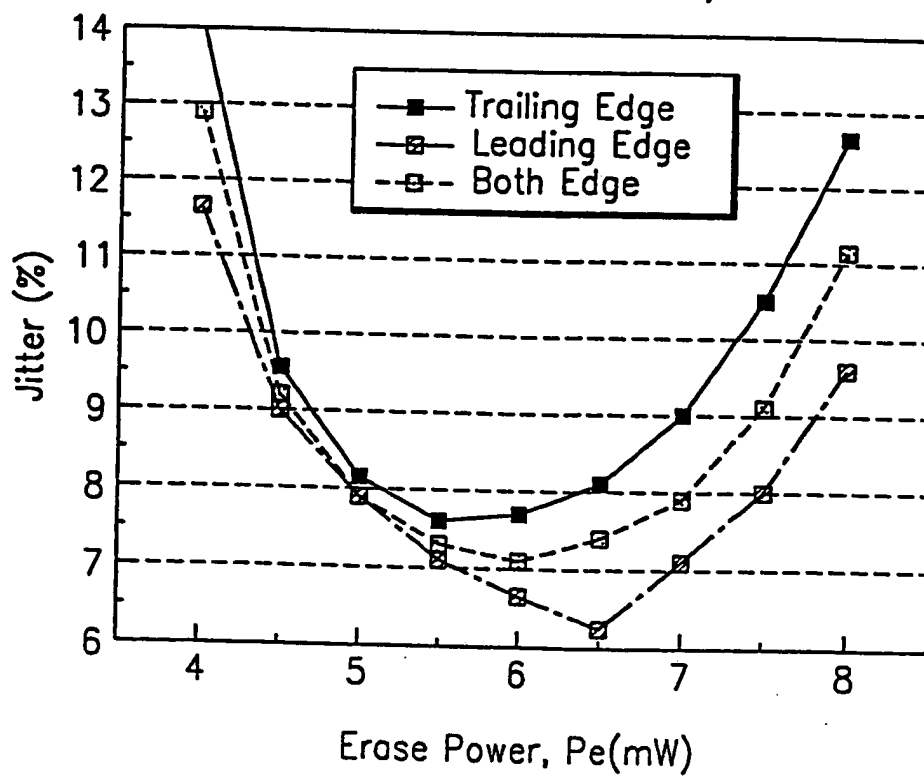
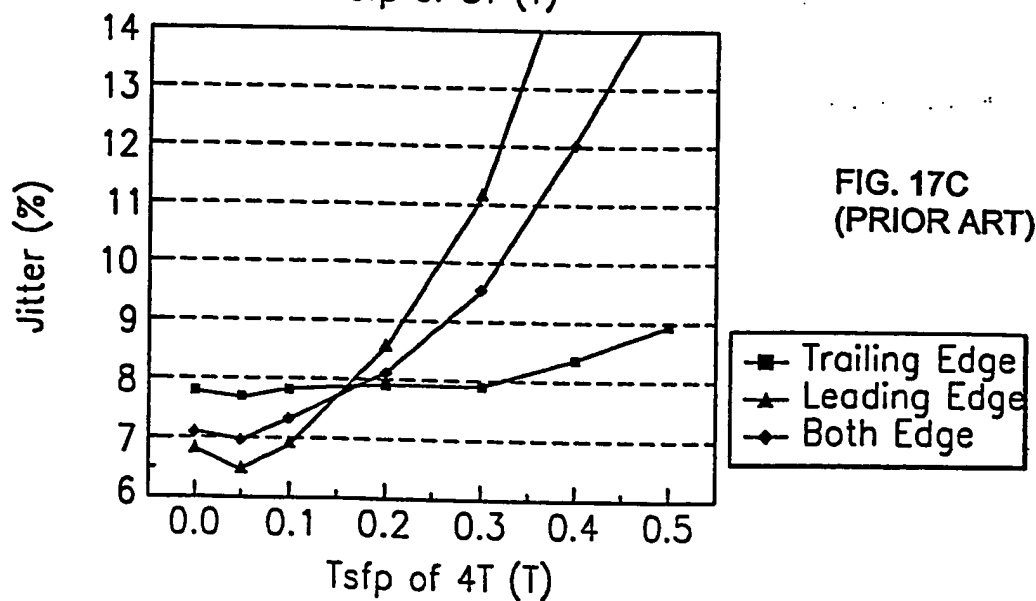
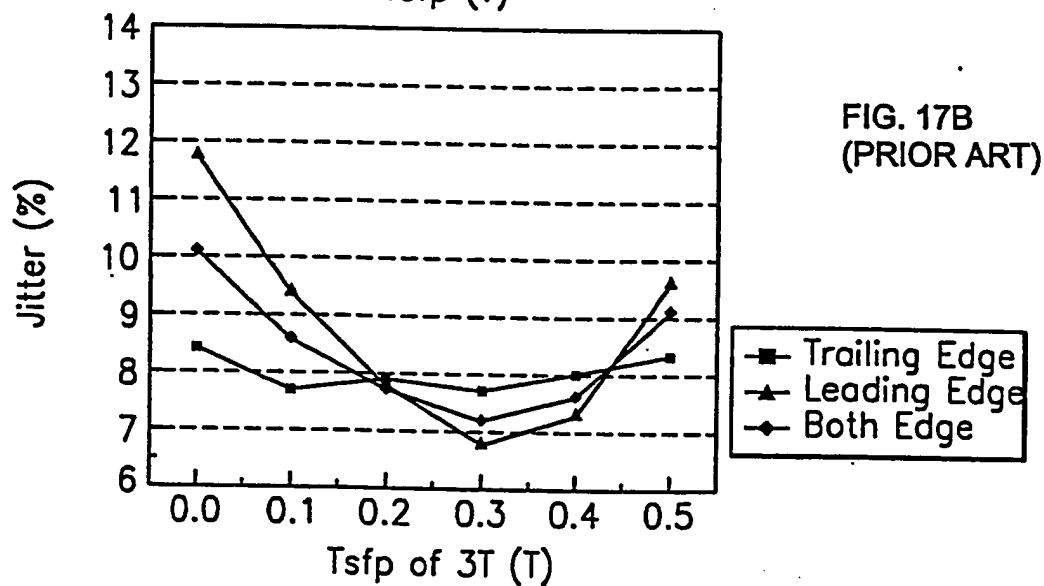
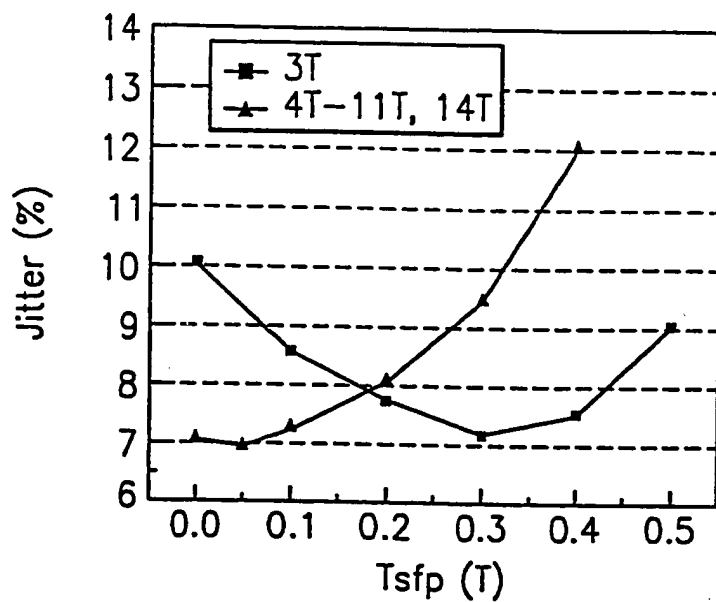


FIG. 16B (PRIOR ART)





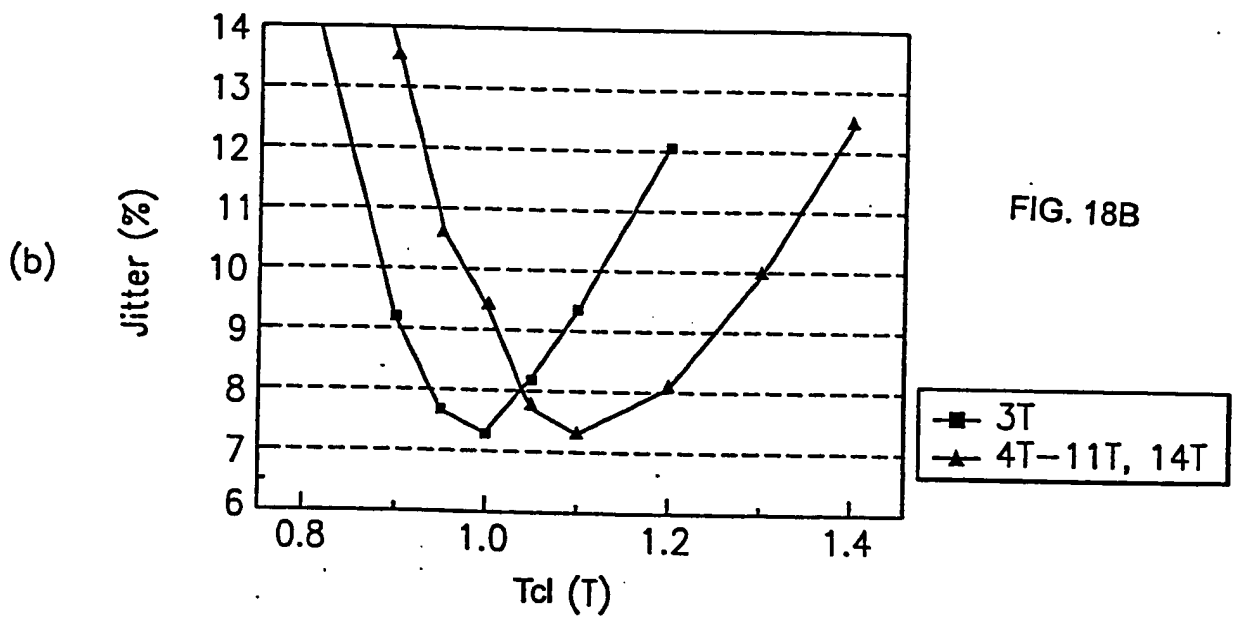
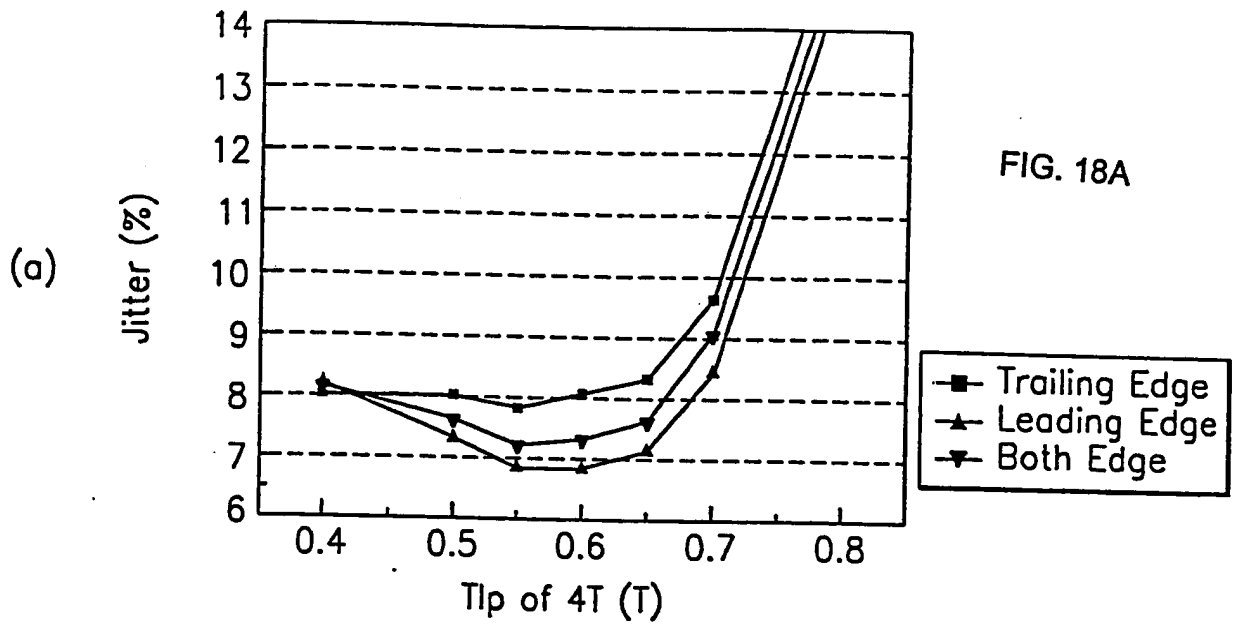


FIG. 19A

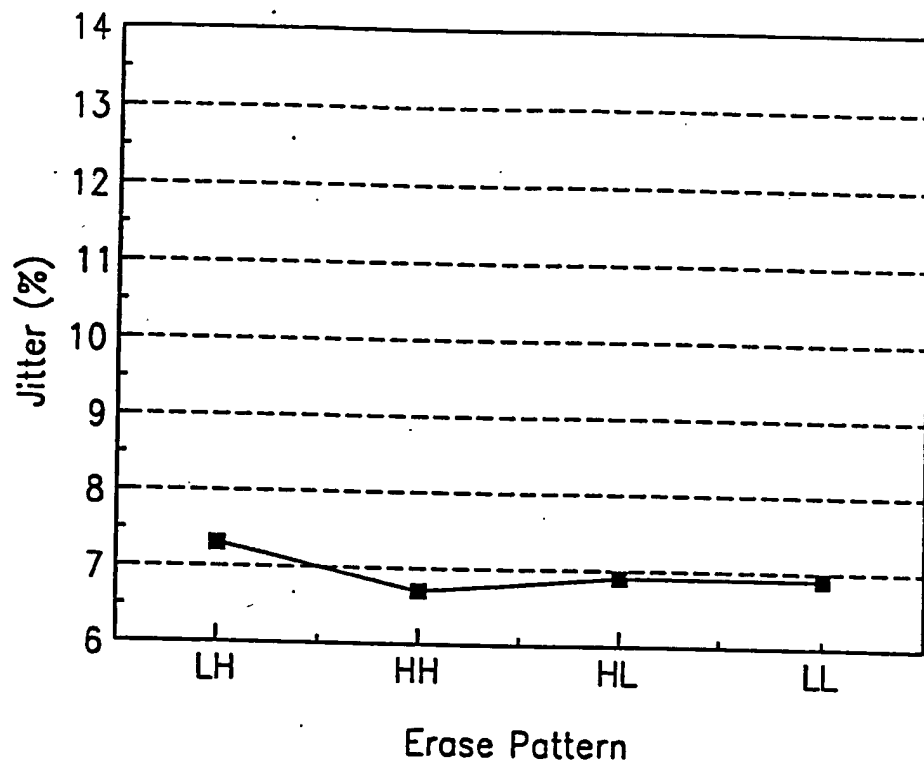


FIG. 19B

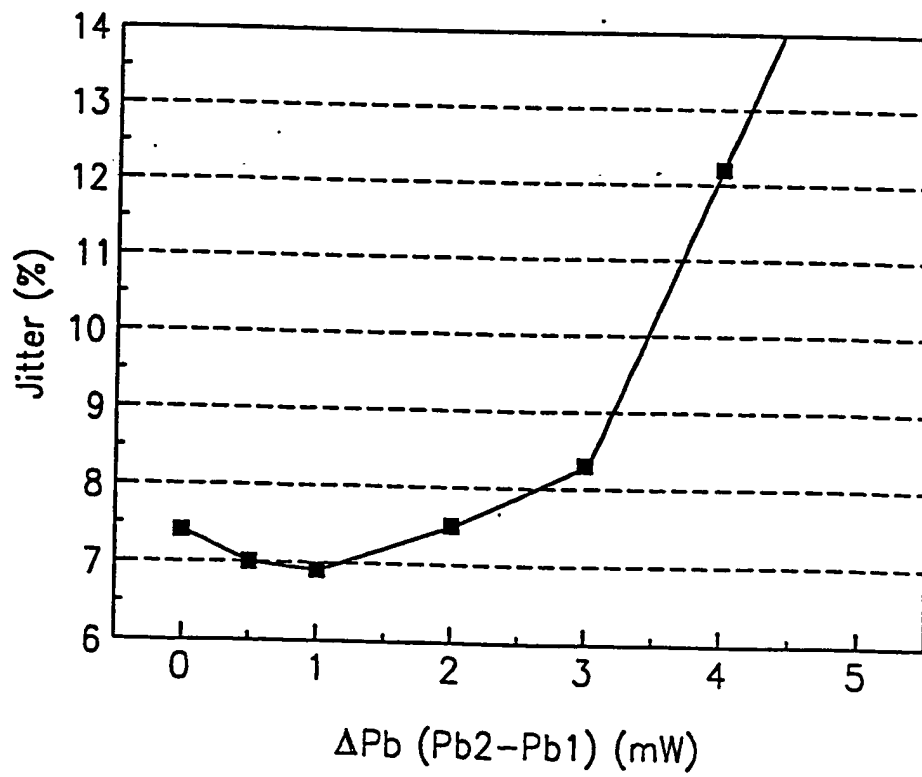


FIG. 20

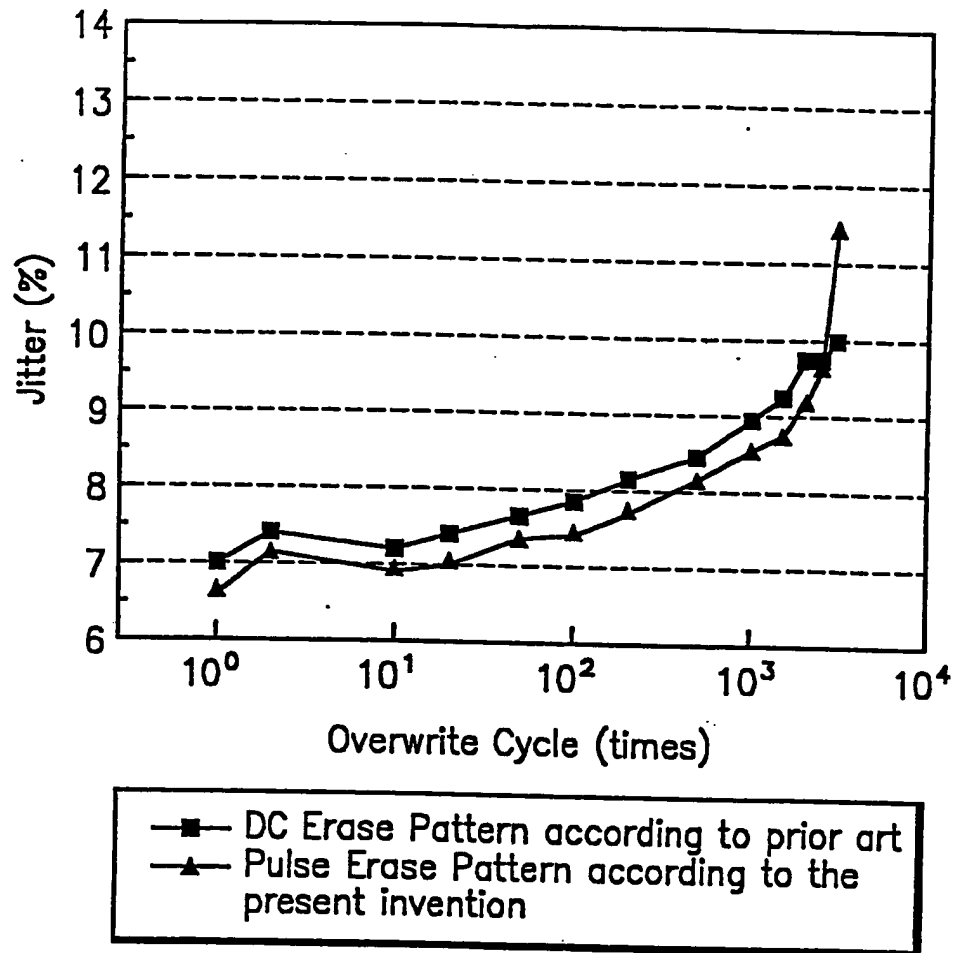


FIG. 21

